

METHYL GREEN PYRONIN MODIFIED STAIN FOR DNA & RNA

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of RNA and DNA.
PRINCIPLE:	Pyronin stains all tissue components but is replaced in DNA by the Methyl Green due to its intercalation into the constituents.
CONTROL:	Tonsil <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs016.</i>
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 6 micrometers
SOLUTIONS:	1. Methyl Green Pyronin Item# s244 <i>Solutions can be purchased separately from Poly Scientific.</i>
NOTES:	Acids may depolymerize DNA resulting in nondifferential staining.
REFERENCE:	Carson, F. <u>Histotechnology: A Self-Instructional Text</u> . ASCP Press. Chicago, IL. 1990. pp.108-110.

STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water.
2. Place the slide on a staining rack. Flood the slide with Methyl Green Pyronin for 5–10 minutes. The timing will depend on the type and thickness of the tissue and the intensity of the stain that is desired.
3. Rinse stained slides in distilled water.
4. Dip slides in 2 changes of Acetone, 15–20 dips each.
5. Dip in equal parts of Acetone and Xylene (50:50), 15–20 dips.
6. Dip in 2 changes of Xylene, 15-20 dips each.
7. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

RESULTS:

DNA..... Green to Blue-Green
RNA..... Red

Poly Scientific R&D Corp.

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